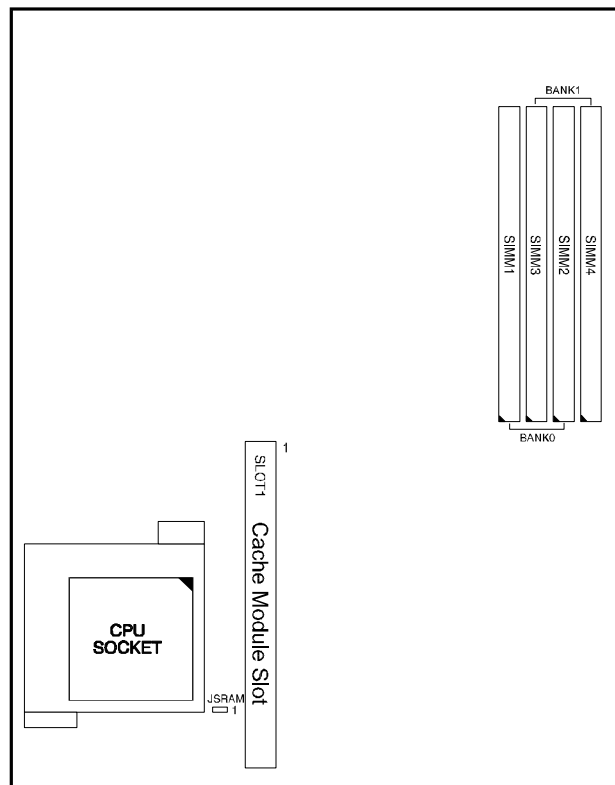


System Memory

The PA-2002 can be equipped with sufficient memory for running even the most advanced software applications. Memory comes in the form of DRAM (SIMMs) and cache SRAM. This chapter describes these two types of memory and gives instructions on how to install each type on the mainboard.

Memory Locations

The board layout below shows the locations of the DRAM memory banks and the cache SRAM:



Installing DRAM

SIMM Banks

The PA-2002 can accommodate onboard memory from 2 to 128MB using SIMMs (Single-In-Line Memory Modules) which support both BEDO Page Mode DRAM and the advanced EDO DRAM. The mainboard has two memory banks Bank 0 and Bank 1. Each bank has two SIMM sockets which can accept either a 1MB, 4MB, 8MB, 16MB or 32MB SIMM in each socket.

DRAM Configuration

Memory can be installed in a variety of configurations, as shown in the following table:

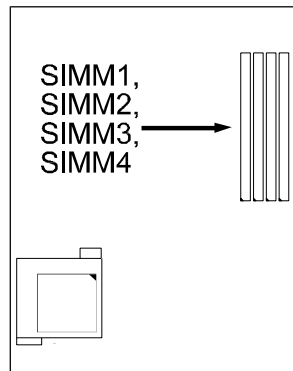
TOTAL MEMORY	BANK 0 (72-PIN x 2)	BANK 1 (72-PIN x 2)
2MB	1MB & 1MB	
4MB	1MB & 1MB	1MB & 1MB
8MB	4MB & 4MB	
10MB	4MB & 4MB	1MB & 1MB
16MB	4MB & 4MB	4MB & 4MB
18MB	8MB & 8MB	1MB & 1MB
32MB	16MB & 16MB	
34MB	16MB & 16MB	1MB & 1MB
40MB	16MB & 16MB	4MB & 4MB
48MB	16MB & 16MB	8MB & 8MB
64MB	16MB & 16MB	16MB & 16MB
66MB	32MB & 32MB	1MB & 1MB
72MB	32MB & 32MB	4MB & 4MB
96MB	32MB & 32MB	16MB & 16MB
128MB	32MB & 32MB	32MB & 32MB

+ NOTE: All memory banks use the 72-pin memory modules.

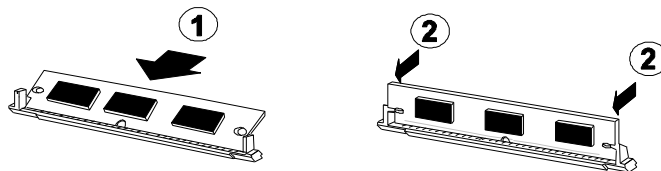
Installation Instructions

+ NOTE : Always observe static electricity precautions. See Handling Precautions at the start of this manual.

1. Locate the SIMM banks on the mainboard.



2. Insert the SIMM edge connector at a 90-degree angle onto the socket.



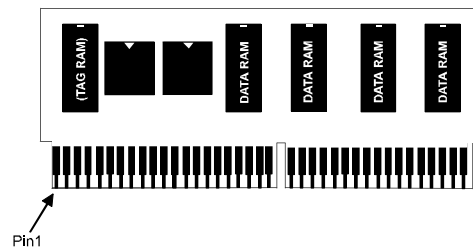
3. Carefully push the SIMM down and back into the socket until the retaining clips of the socket snap, holding the SIMM in place. The holes in the SIMM should match the pins on the socket's retaining clips.

To remove the SIMM/s, pull the retaining latch on both ends of the socket and reverse the procedure above.

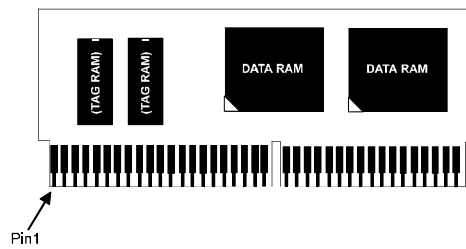
Cache Memory

The PA-2002 accepts 256KB/512KB/1MB standard 3.3V/mix voltage asynchronous SRAM, or 256KB/512KB standard 3.3V synchronous SRAM direct-mapped write-back cache memory with cache module.

Asynchronous SRAM Module



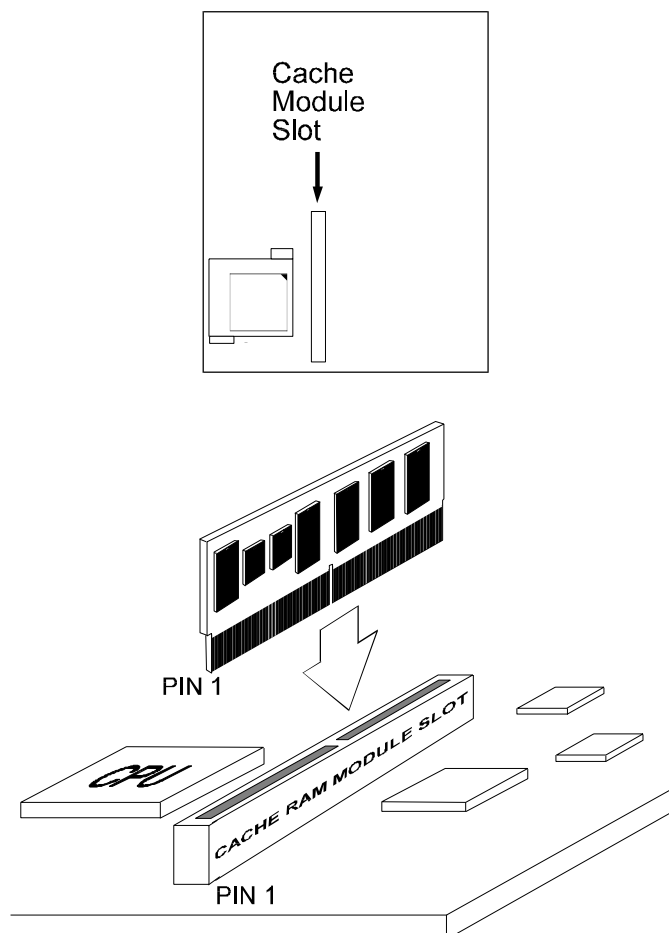
Synchronous SRAM Module



Installing Cache Memory

Locate the cache module slot on the mainboard and insert your cache RAM module carefully.

+ NOTE : Always observe static electricity precautions. See Handling Precautions at the start of this manual.



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